

TRIPLE-PRODUCT CORRELATIONS  
IN THE PROCESSES OF  $B^\pm$ -MESON DECAY  
INTO TWO,  $D^*$  AND  $K^{*\pm}$ , VECTOR MESONS

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S u m m a r y

The  $T$ -violating triple-product correlations in the decay processes  $B^\pm \rightarrow D^*K^{*\pm}$ ,  $D^* \rightarrow D\pi^0$ ,  $D\gamma$ ,  $D \rightarrow f$ , where the neutral  $D(D^*)$  meson is a superposition of  $D^0(D^{*0})$  and  $\bar{D}^0(\bar{D}^{*0})$  ones, have been studied. In the framework of the standard model, it has been shown that the large  $T$ -violating asymmetries ( $\sim 30\%$  for the weak phase  $\gamma = 62^\circ$ ) are possible for such final hadronic states  $f$  that the decay  $D^0 \rightarrow f$  is a doubly Cabibbo-suppressed mode, while  $\bar{D}^0 \rightarrow f$  is a Cabibbo-allowed one.